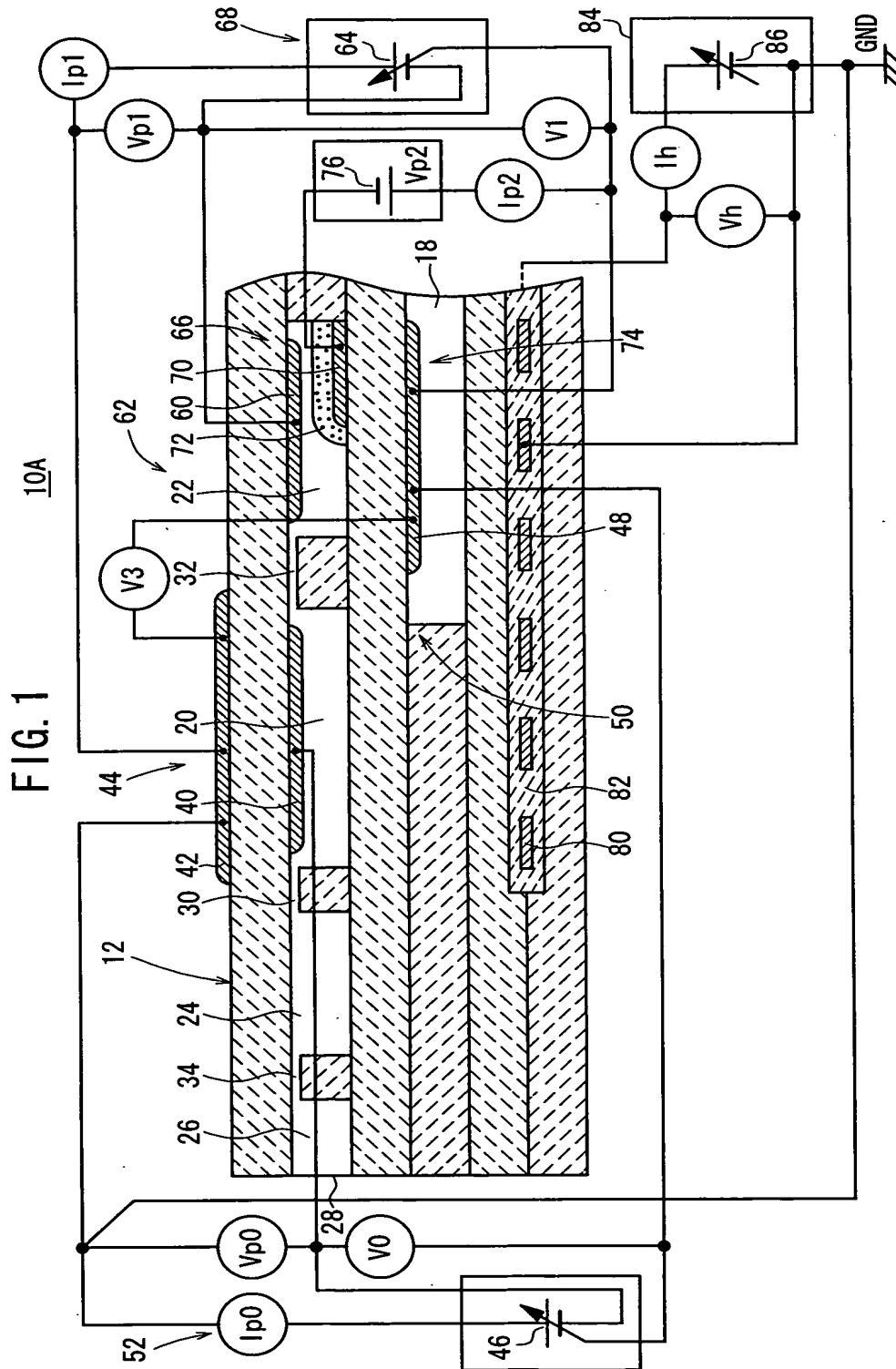
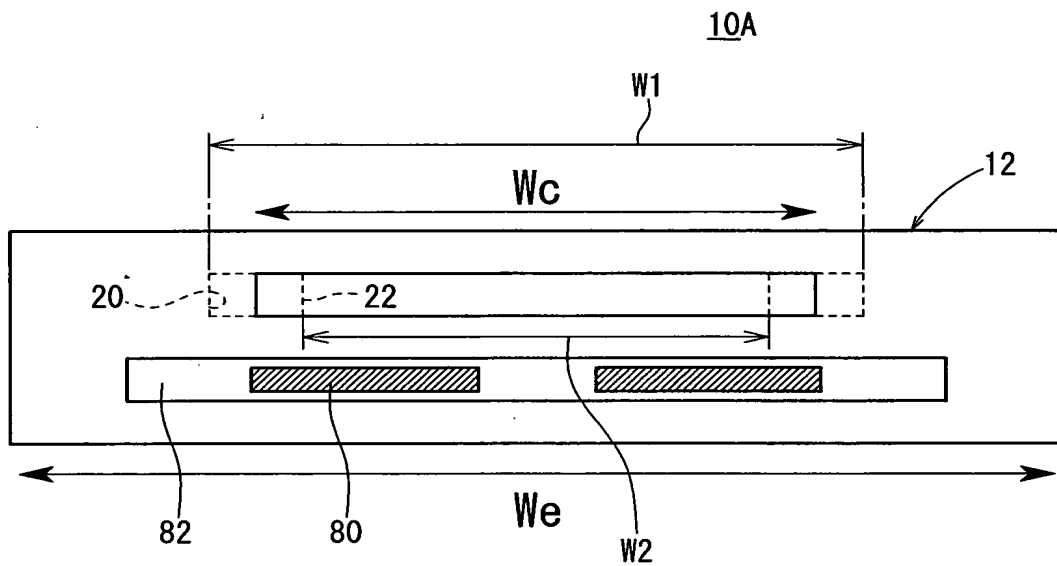


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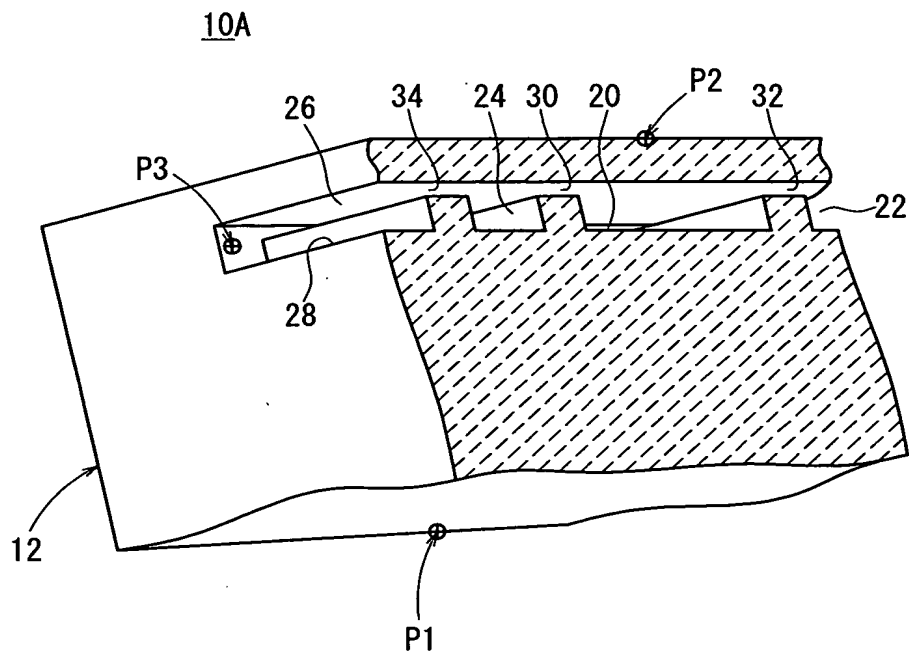
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FIG. 2



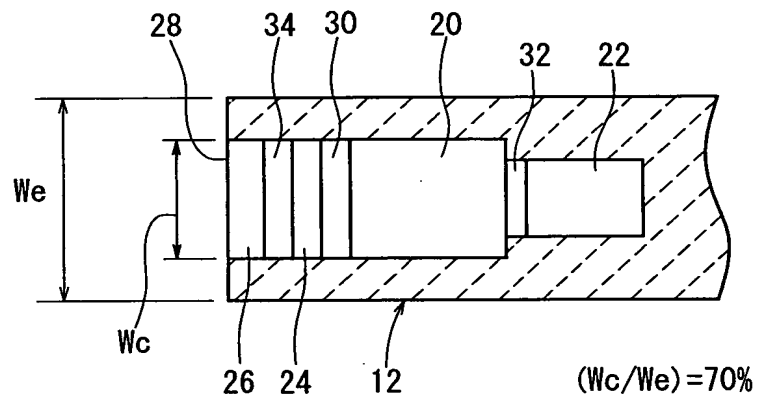
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FIG. 3



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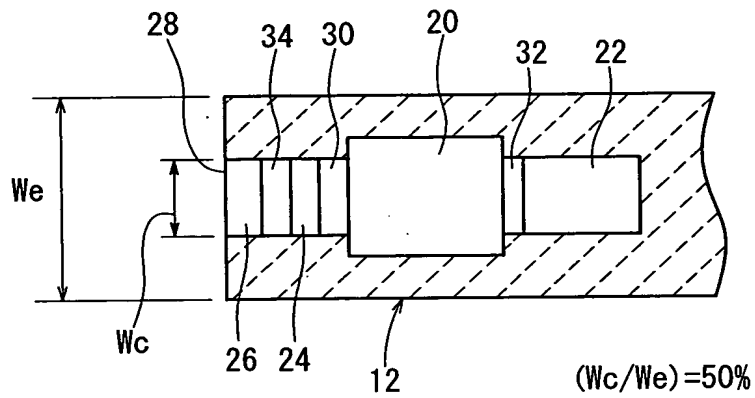
FIG. 4



A cross-sectional view of a composite material assembly 10. The assembly consists of a central rectangular core 20 surrounded by a matrix material 12. To the left of the core 20 is a series of vertical fibers or layers 26, 24, 34, and 30. To the right of the core 20 is another rectangular section 22. A dimension line labeled We indicates the total width of the assembly, and a dimension line labeled Wc indicates the width of the central core 20. The ratio (Wc/We) = 60% is noted at the bottom right.

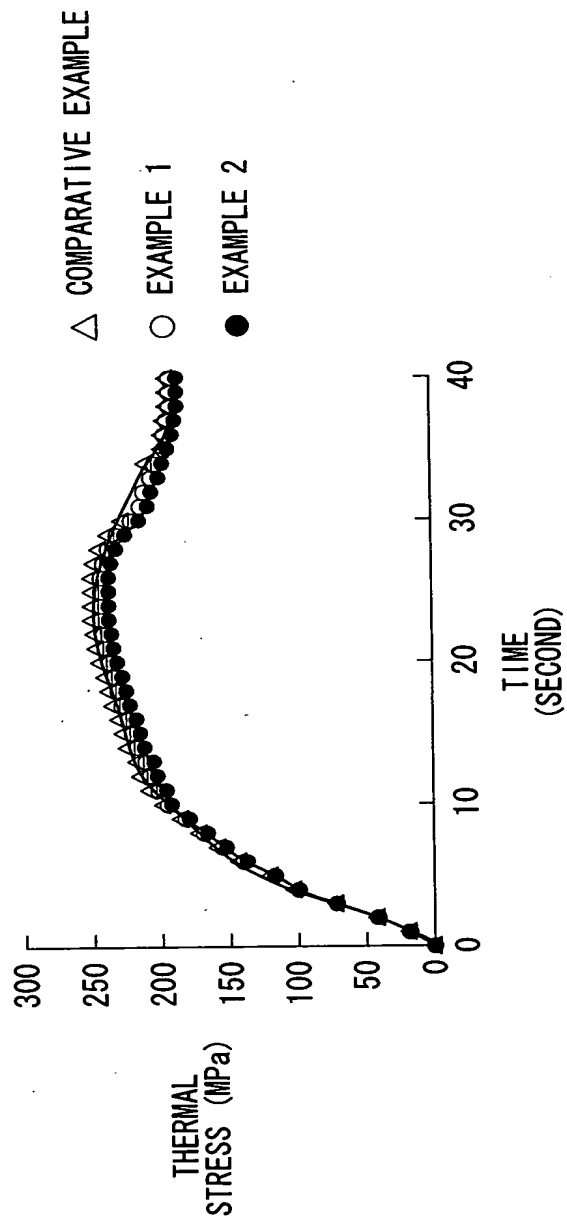
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FIG. 6



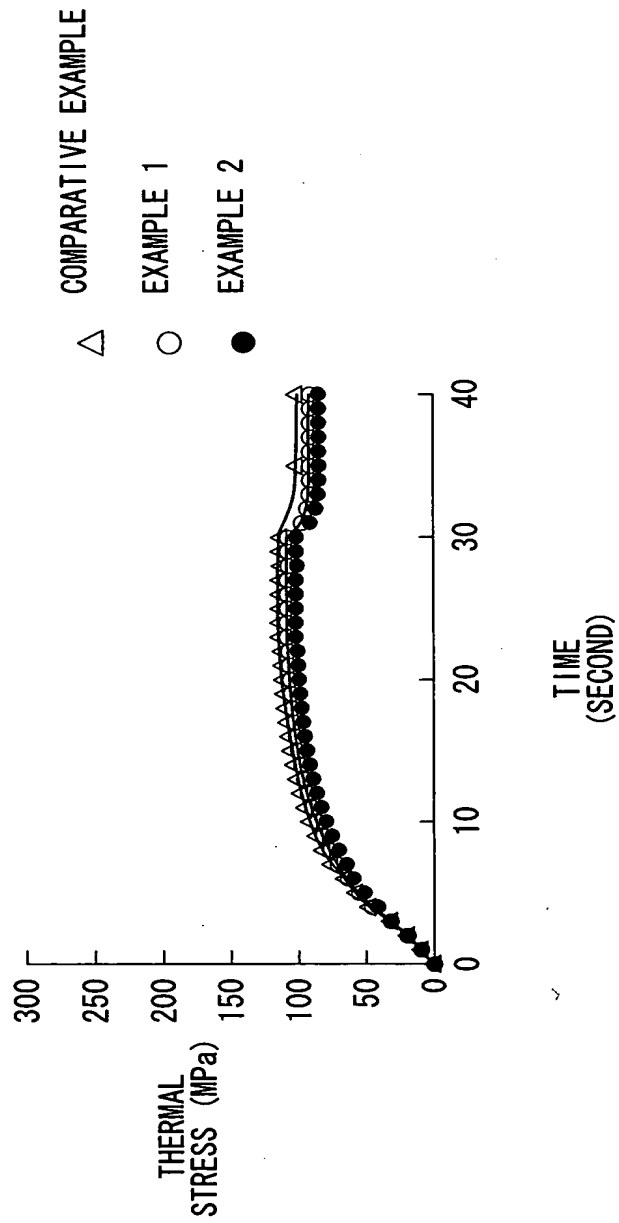
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FIG. 7



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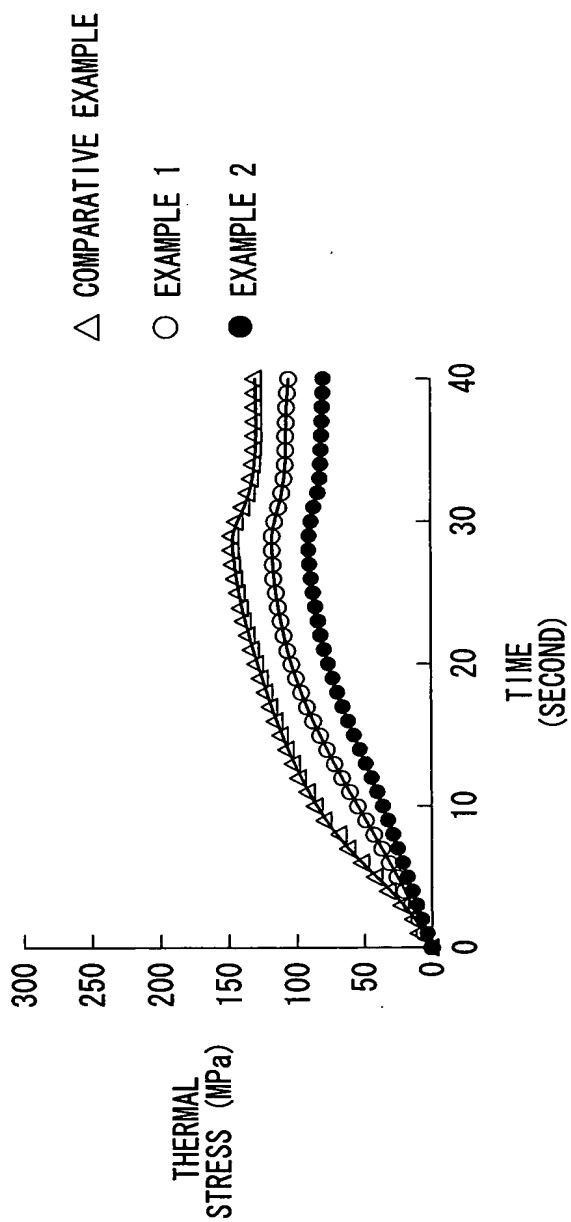
FIG. 8





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FIG. 9



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FIG. 10A

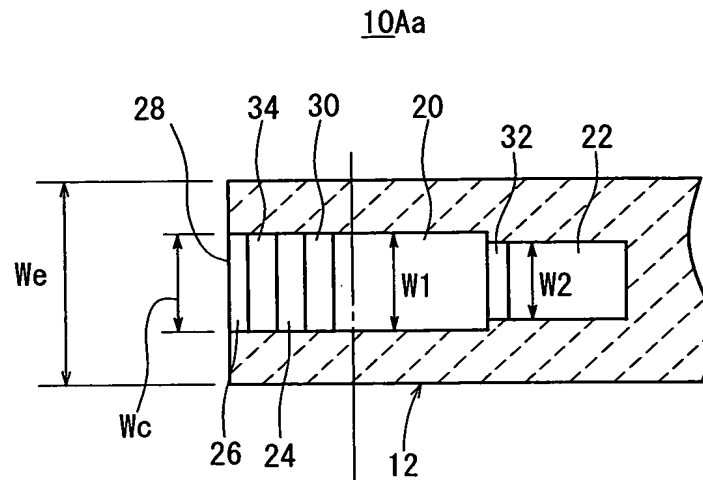
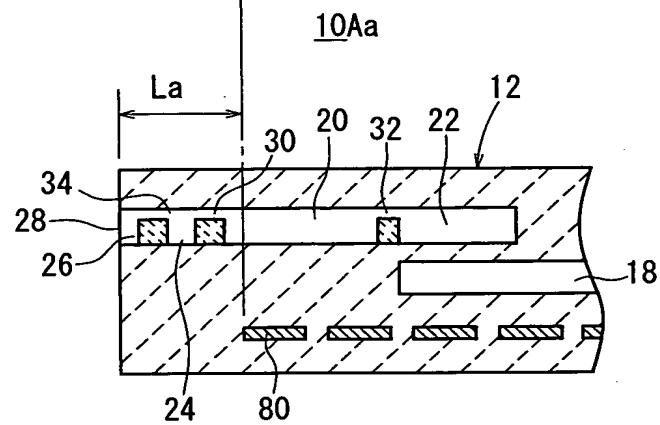


FIG. 10B



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FIG. 11A

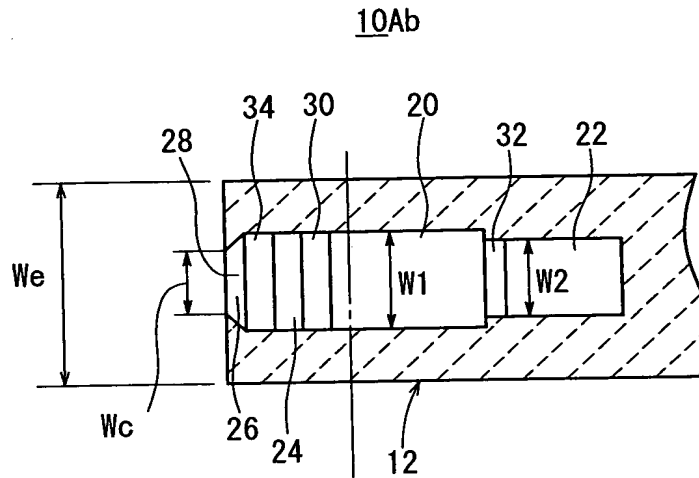
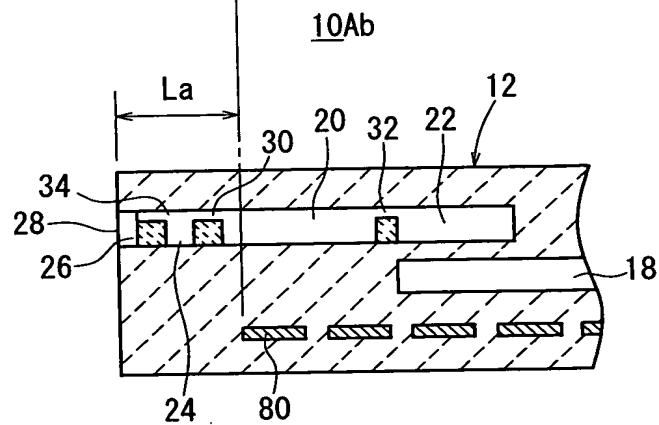


FIG. 11B



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FIG. 12A

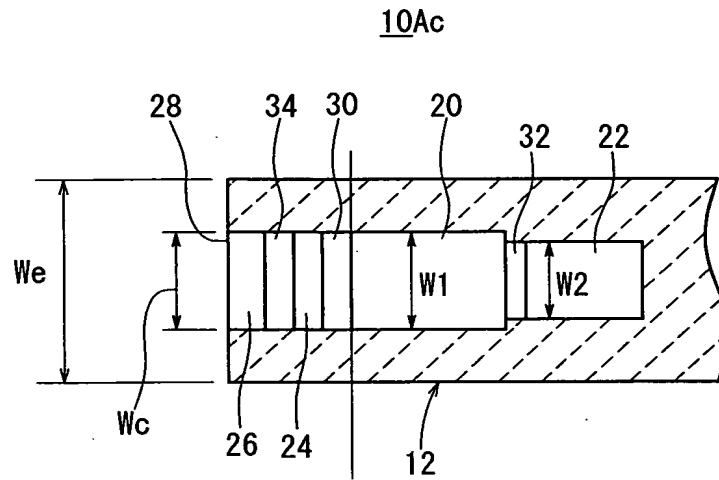
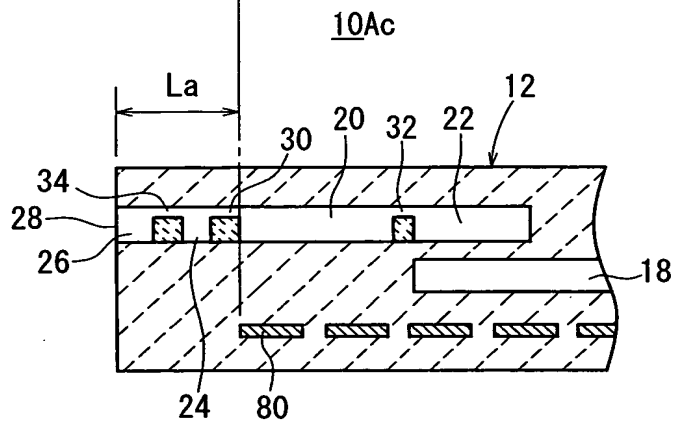


FIG. 12B



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FIG. 13A

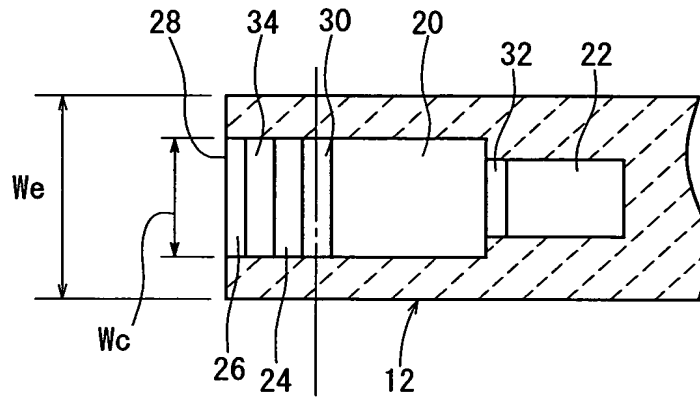
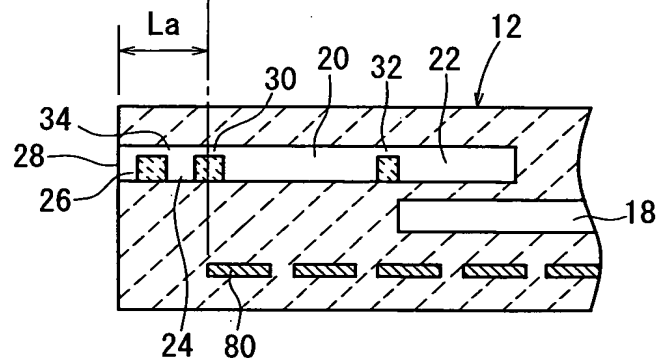
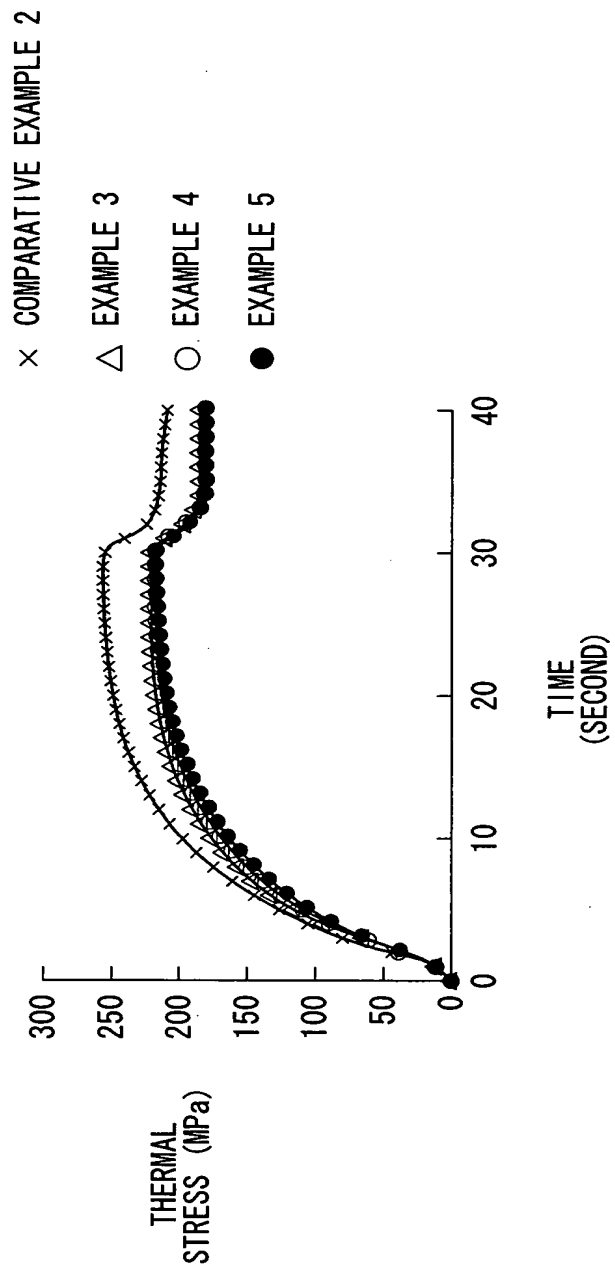


FIG. 13B



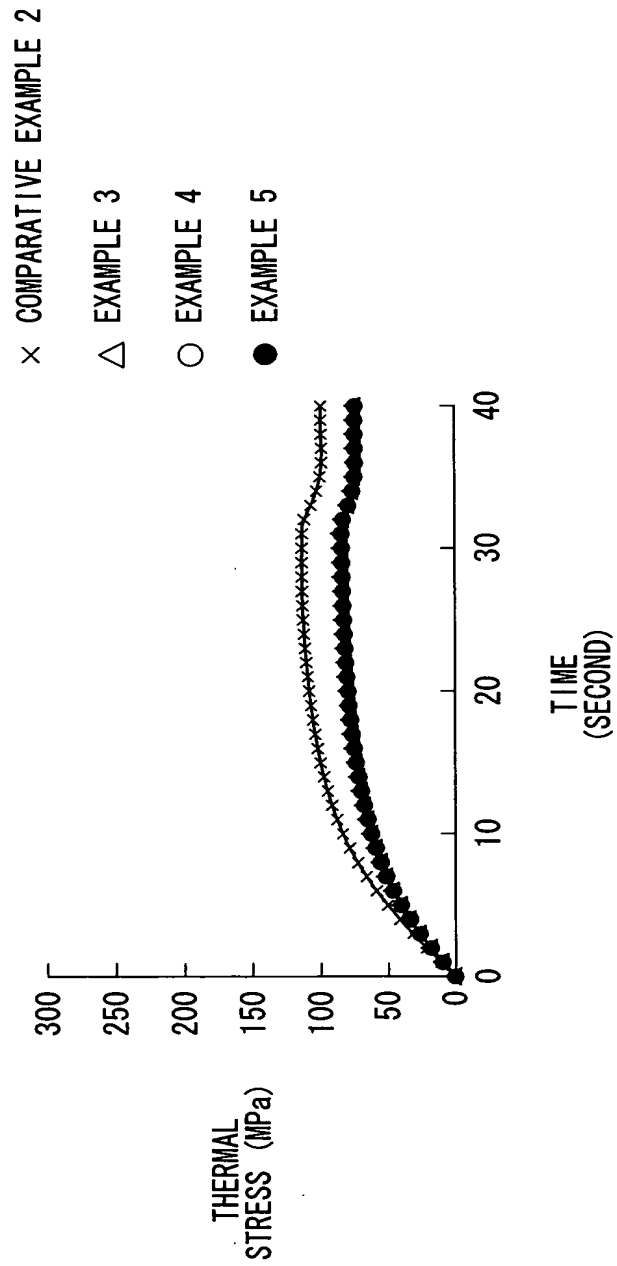
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FIG. 14



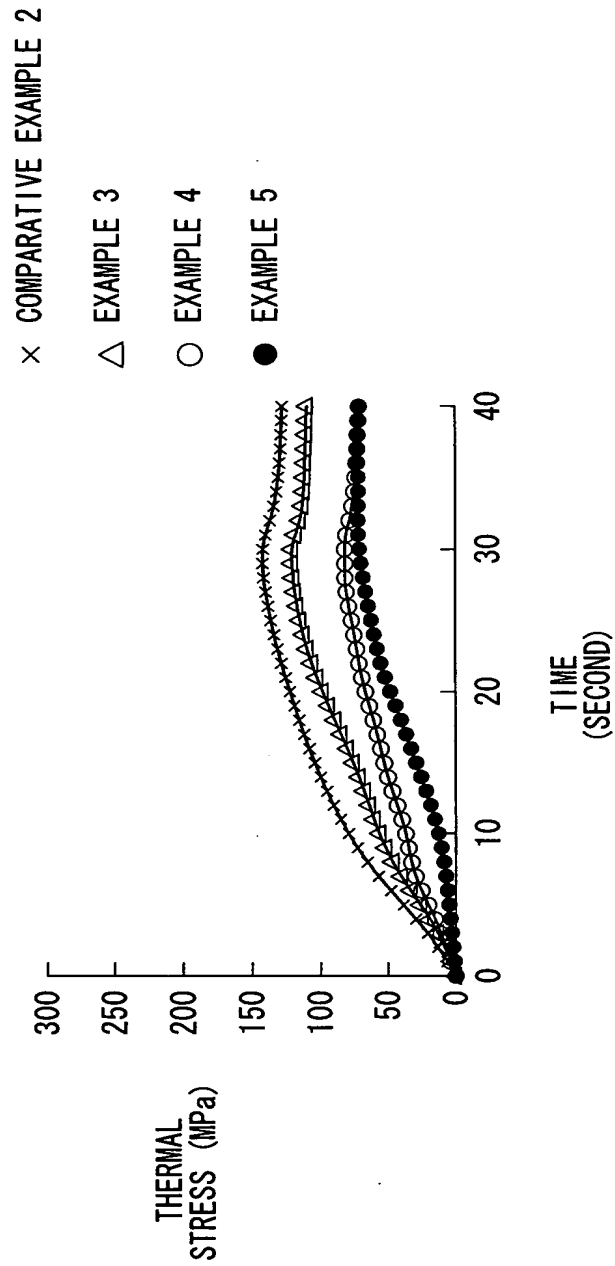
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FIG. 15



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FIG. 16





10B